

OCCIDENTAL COLLEGE BULLETIN

A NEW PLAN of undergraduate study has been adopted by Occidental College and will be effective for the academic year 1930-31. This plan involves two basic changes: (1) Lower division requirements have been revised to bring about a more desirable balance between subjects which Occidental College believes essential to a liberal education; (2) The curriculum has been organized into seven major groups of inter-related departments, and opportunity is offered for upper division concentration in fields somewhat broader than those within the individual departments.

This bulletin is published as a supplement to the Occidental College catalogue for the year 1930-31, and outlines both the plan of undergraduate study and the courses of instruction offered under the seven groups of departments into which the work of the College has been organized. All other information concerning the College may be found in the catalogue.

PLAN OF UNDERGRADUATE STUDY

THE regular undergraduate course extends normally through four academic years and leads to the degree of Bachelor of Arts. The first two years of the course are intended to provide a comprehensive but sound foundation in subjects such as English, the Social Sciences, Mathematics, the Natural Sciences, Foreign Languages, Religion and Philosophy, a knowledge of the principles of which is generally considered essential to a liberal education. During the last two years of his course a student devotes himself largely to more intensified study in the particular major subject or field of his choice. In certain exceptional cases, discussed later under Suggested Courses of Study (see pages 31-35 of the catalogue), a student may complete one year, usually the fourth year, of his course in an approved professional school.

The work of the College is divided into the following groups of departments:

I. ENGLISH AND SPEECH EDUCATION

II. FOREIGN LANGUAGES:

Greek
Latin
French
German
Italian
Spanish

III. SOCIAL SCIENCES:

Economics and Sociology
History
Political Science

IV. NATURAL SCIENCES AND MATHEMATICS:

Biology
Chemistry
Geology
Physics
Mathematics and Technical Drawing

V. EDUCATION AND PSYCHOLOGY; PHYSICAL EDUCATION

VI. RELIGION AND PHILOSOPHY

VII. FINE ARTS

Music

History of Art

Freehand Drawing

Library

BACHELOR OF ARTS DEGREE

The Board of Trustees will confer the Bachelor of Arts degree, upon the recommendation of the Faculty, upon a candidate who meets the requirements for that degree. The Faculty may recommend a student for the degree whenever the requirements have been met and when so recommended at a time other than at the regular commencement the student is assigned to the class of the calendar year in which the recommendation is made.

The recommendation of the Faculty for the conferring of the degree is contingent upon the satisfaction of the following requirements:

1. *The completion of one hundred and twenty-four units of college work.* This credit must be based on full satisfaction of all entrance requirements; and must be distributed in the proper manner over the work of the lower division, including all requirements for the junior certificate; and that of the upper division, including all requirements for the major and minor and for graduation. The requirements of the lower division and of the upper division are stated hereafter in detail. Certain exceptions are made in the case of students who are authorized to enter a professional school for the fourth year of their course.

Of the one hundred and twenty-four units required for the degree, not to exceed four units may be in required physical education, gymnastics or sports.

The election of work in any one department is limited to forty units.

2. *The satisfaction of requirements in English Composition.* (For detailed statement concerning English A, see Page 64 of the catalogue.)
3. *The attainment of a grade point ratio of 1 or better,*

i.e., the acquirement of a number of grade points equal to or greater than the number of units undertaken in college. Advanced credit from other institutions must also meet this requirement but will not be accepted as more than the equivalent of a grade point ratio of 1 in determining the general course average. The candidate must maintain an otherwise honorable and acceptable record, which must be free from all conditions at least six weeks before graduation.

4. *The establishment of at least one year of residence, two consecutive semesters, the final ones of the course, with a minimum credit of twelve units of residence work each semester distributed as provided under the requirements of the upper division.*

THE LOWER DIVISION

The specific requirements for the junior certificate, which marks the completion of the lower division, are indicated below. These requirements are effective for the class entering the College in September, 1930. Earlier classes, however, are urged to conform as closely as possible with the new requirements. Lower division students are required to meet in full either the new requirements for the junior certificate or those effective when they matriculated in the College.

- *1. English and Speech Education 12 units
Three units of this requirement must be elected in Speech Education.
2. Foreign Language
A minimum of one year in college, irrespective of the number of entrance credits presented in this subject. Students who fully meet the entrance requirement of two or more years in one foreign language may complete the junior certificate requirement in this subject by taking six units in an intermediate or advanced year-course in the same language or ten units in a beginning year-course in another language.
- *3. Social Sciences 12 units
A six-unit course in History 7-8, and a six-unit year-course in a second social science.
4. Natural Sciences and Mathematics
In addition to the one year of laboratory science required for graduation from high school, a one-year course of ten units

in Chemistry, Physics or Biology must be taken in college. If more than one science has been taken in high school, a one-year course of eight units in Geology will also satisfy this requirement.

Three units of lower division Mathematics may be substituted for the Psychology requirement listed in 5 below.

5. Psychology 3 units
The requirement in Psychology may be waived if three units of Mathematics are completed in the lower division.
6. Physical Education and Hygiene 4 units
The prescribed work of the freshman and sophomore years.
7. Religion and Philosophy 4 units
In lower division courses.
8. A total of sixty-four units of college work and the full satisfaction of all entrance requirements.

*In certain exceptional cases, through permission granted by the Faculty Committee on Classification, a student may be awarded the junior certificate on completion of one-half the above requirements in Group I and Group III. The other half of these requirements must be met, however, prior to graduation.

In accordance with the scholastic requirements, a minimum average grade point ratio of 1 is necessary for advancement from the lower division. The fulfillment of the requirement for graduation relative to a course in American Institutions may be met in the lower division by election of Political Science 1-2.

As early in the lower division as possible, every student should determine the major and minor he later wishes to pursue, in order that the prerequisites may be included in his program of lower division courses. When a major subject has been chosen, the student should consult with the faculty committee of advisers within his chosen group concerning his subsequent course of study.

THE UPPER DIVISION

The upper division covers the work of the junior and senior years, normally amounting to sixty units. Except in the case of students transferring from other institutions, a candidate for the degree is not registered in the upper division until he has been awarded the junior certificate.

The requirements of the upper division are as follows:

1. The completion of a minimum of fifty-four units of

college credit after the student has entered the upper division, with additional credit sufficient to raise the total number of units completed in the upper and lower divisions to one hundred and twenty-four.

2. The completion of a minimum of forty units of upper division courses after the student enters the upper division, not less than twenty-seven of which are devoted to a major in one subject and a minor in a related subject, eighteen units being the minimum for a major and nine units the minimum for a minor. A group major of not less than thirty units, distributed by the group advisers in each individual case, may be completed in lieu of the departmental major and minor.

3. The inclusion of four units of Religion and Philosophy in the work of the upper division.

4. The completion of a course in American Institutions (see Political Science 101), unless the requirement has been met in the lower division (see Political Science 1-2).

5. The inclusion of two hours per week of directed physical activity during each semester of upper division work. No credit will be allowed toward the degree for this work. This requirement will be effective for all upper division students in September, 1930, and thereafter.

6. The attainment of an average grade point ratio of 1 in the work of the upper division as a whole. A student in the upper division, registered in a lower division course, may be required at the option of the instructor to complete additional work in the course.

MAJOR AND MINOR SUBJECTS

On entering the work of the upper division, each student must select a departmental major and a departmental minor or a group major in which he proposes to do intensified study. From the time of such selection, his program and work will be supervised by a committee of advisers within his chosen group. Double majors (one in each of two groups or within the same group) are also possible. The program of a student who chooses to complete double majors is subject to the approval of the Dean. Complete information regarding major and minor

requirements may be found in the announcements of the several groups.

The following general regulations relate to the administration of all groups and departments, under the supervision of the Dean:

1. For a departmental major or minor, not more than twenty-four units of upper division work may be required in the major nor more than twelve units in the minor. Units required in excess of the minimum of eighteen and nine, for major and minor respectively, may be wholly or partly from specified courses in related departments. A student will be graduated upon completion of the minimum requirements in major and minor as specified in the announcements of the several groups.

2. Major advisers shall be held responsible for the enforcement of the regulation providing that not more than forty units of the one hundred and twenty-four required for graduation may be elected by the student and counted in any one department.

3. A student transferring from another institution who is granted senior standing must complete eighteen of twenty-four units required in residence in the upper division, twelve of which must be in a major subject. Transfers of less than senior standing will be required to meet substantially all the regular requirements.

4. It is advised that students continue the work of the major department or group throughout the four semesters of the upper division. It is required that regular major courses be pursued in each of three semesters, including the last two.

5. Each group may set its standard of scholarship requirements for majoring and minoring in the group or in departments within the group somewhat higher than those required for graduation, provided the average grade point ratio required does not exceed 1.5. In general, students who fail to attain an average grade point ratio of 1 in the work of the lower division of any department will not be accepted by that department as majors or minors. The recommendation of the major group is necessary for graduation. Each group shall report delinquent scholarship of its major students to the Dean at the close of each semester.

6. A change in the choice of a major, after the student has entered the upper division may be made only with the permission of the Dean and the consent of the group or groups concerned. A change in a minor may be made with the consent of the major group and the Dean. A student changing major or minor must meet all requirements of the new group or department in which he proposes to major or minor.

7. A change in major necessitated on account of disqualification in scholarship in the major subject may result in the student being placed on probation by the proper faculty committee; and a student so disqualified a second time may be disqualified by the College.

8. Students wishing to prepare for a teacher's credential must consult the School of Education on beginning upper division work. All students completing a department major in Group V must also complete for graduation a major from Groups I-IV or VI-VII. All candidates for an Elementary Teacher's Credential must complete a major of 18 units and a minor of 12 units in "subjects which offer suitable preparation for public school teaching."

COURSES OF INSTRUCTION

THE COURSES OF INSTRUCTION offered in the College are listed on the following pages under their respective groups. Complete description of courses, unless given herein, will be found under Departments of Instruction, pages 48-102 of the Occidental College catalogue for 1930-31.

GROUP I.

ENGLISH AND SPEECH EDUCATION

GROUP MAJOR: A minimum of thirty units of upper division work in such courses as may be advised in each individual case by the group committee of advisers. The major will ordinarily include the following courses: English 101 (2 units), 121-122 or 124 (3 units), 130 (3 units), 139 (3 units), 145-146 (3 units), and additional units from courses 121-168; Speech Education 101 or 102 (2 units), 121 (3 units), 155 or 156 (2 units), 175 (3 units), 176 (3 units), and additional units from courses 100-190.

Prerequisite: Eighteen units of lower division work within the group.

DEPARTMENTAL MAJORS:

Offered in English and in Speech Education.

DEPARTMENTAL MINORS:

Offered in English and in Speech Education.

ENGLISH

DEPARTMENTAL MAJOR: Twenty-one units in the upper division; twenty-four units in the upper division for students seeking the recommendation of the department for graduate work or for a General Secondary Credential. A major should ordinarily include at least two units in advanced composition, three from courses 121-124, twelve from 124-146, and such other courses as 167-168 and 255-256. Speech Education 121 and 151 are accepted as major work, and Speech Education 151, or its equivalent, is required of all majors in the department seeking a teacher's credential. All students majoring in the department, especially those who expect to pursue graduate work in English, should equip themselves with a reading knowledge of one or more foreign languages.

DEPARTMENTAL MINOR: For graduation, nine units in the upper division; twelve units for students who seek the recommendation of the department.

Prerequisites to the major or minor: Courses 1-2 and 51-52, or equivalents (12 units).

Prerequisite to upper division courses: Course 1-2; six units from lower division courses numbered above 50, or equivalent (12 units).

GRADUATE MAJOR FOR MASTER'S DEGREE: A minimum of twelve units of graduate courses in English, including two graduate seminars or graduate year-courses, or equivalents. The graduate work must be based on an undergraduate major of not fewer than eighteen units. The undergraduate and graduate majors must total thirty-six units. A reading knowledge of one foreign language is required. (See general requirements for the Master of Arts degree.)

LOWER DIVISION COURSES

A. Essentials of Composition.

1 to 3 hours, either semester. (No credit).

1-2. English Composition.

3 hours, throughout the year. (6 units).

51-52. History of English Literature.

A. A survey of the main tendencies and aspects of English literature. Advised for students who intend to major or minor in the group or department. Either semester may be taken separately.

Prerequisite: Course 1-2, completed or in progress.

3 hours, throughout the year. (6 units).

B. A briefer course with attention to types.

Prerequisite: Course 1-2, completed or in progress.

2 hours, throughout the year. (4 units).

53-54. The Novel.

Prerequisite: Course 1-2, completed or in progress.

2 hours, throughout the year. (4 units).

61-62. Journalism.

Prerequisite: Course 1-2, completed or in progress.

2 hours, throughout the year. (4 units).

UPPER DIVISION COURSES

Certain courses of the upper division are given as indicated in alternate years.

101. Advanced Composition.

The theory and practice of:

A—Narrative and descriptive writing.

B—Expository writing.

C—Argumentation.

D—The informal essay.

E—Critical writing.

F—Short story writing.

G—Versification

One or more of the types is offered each semester.

2 hours, one semester. (2 units).

121-122. Old English.

2 hours, throughout the year. (4 units).

124. The Period of Chaucer.

3 hours, second semester. (3 units). Not given in 1930-31.

128. The Development of the Drama.

3 hours, first semester. (3 units).

130. Shakespeare.

3 hours, first semester. (3 units).

132. Shakespeare.

Intensive study of three plays.

3 hours, second semester. (3 units).

135. Milton and the Seventeenth Century.

3 hours, first semester. (3 units).

136. The Eighteenth Century.

3 hours, second semester. (3 units).

137. The Romantic Period.

3 hours, second semester. (3 units).

139. The English Novel.

3 hours, first semester. (3 units).

142. Nineteenth Century Prose.

2 hours, first semester. (2 units). Not given in 1930-31.

144. Poetry of the Victorian Period.

3 hours, first semester. (3 units). Not given in 1930-31.

145-146. American Literature.

3 hours, throughout the year. (6 units).

152. Contemporary Literature.

3 hours, second semester. (3 units). Not given in 1930-31.

153. Types of Literature.

2 or 3 hours, one semester. (2 or 3 units).

161-162. Advanced Journalism.

2 hours, throughout the year. (4 units).

167-168. Comparative Literature.

2 hours, throughout the year. (4 units).

GRADUATE COURSES

Upon completion of additional requirements, upper division courses 121 and following may be credited as graduate work.

With the consent of the instructor, qualified seniors may enroll in graduate courses.

211-212. Seminar.

2 hours, throughout the year. (4 units).

220. Thesis for Master of Arts Degree.

Not to exceed 4 units.

255-256. Theories of Poetry.

2 hours, throughout the year. (4 units).

SPEECH EDUCATION

DEPARTMENTAL MAJOR: Twenty-one units in the upper division. Major students should do work in practical speech making, oral interpretation and dramatics. A definite amount of work is required in actual platform presentation.

DEPARTMENTAL MINOR: Twelve units in the upper division.

LOWER DIVISION COURSES

1. The Fundamentals of Speech.

This is a course in general speech education. Emphasizes the modification of speech habits and the requisites of effective speaking in every-day social and business relationships.

2 and 3 hour sections, either semester. (2 or 3 units).

2. Public Speaking.

Adjustment of the individual to the social group. Training in the principles of oral rhetoric. The selection, organization and extempore presentation of original subject matter.

2 and 3 hour sections, either semester. (2 or 3 units).

3. Oral Reading.

The elementary principles of reading from the printed page; the assimilation and expression of thought and feeling.

3 hours, either semester. (3 units).

5. Vocabulary Study.

Vocabulary building. Work with thesaurus and dictionary. Synonyms, antonyms, and prepositions.

2 hours, second semester. (2 units).

7. Parliamentary Law.

The history and development of parliamentary law. Practical drill in parliamentary procedure.

1 hour, first semester. (1 unit).

9. Voice and Speech Correction.

Speech Laboratory. A laboratory period which may be required of all students who present special problems that impede their progress in the regular courses. Foreign students and others with faulty speech coordinations are advised to take this course.

No credit.

UPPER DIVISION COURSES

100. The Fundamentals of Speech Education.

Speech Education as personality training and adjustment. This course or equivalent required of all candidates for teachers' certificates.

2 hours, either semester. (2 units).

101-102. Advanced Public Speaking.

The principles of unity, sequence, and movement applied to oral discourse. Emphasis on wide reading and comprehensive synthesis of materials.

2 hours, throughout the year. (4 units). Either semester may be taken separately.

121. Argumentation and Debate.

Described in catalogue as Speech Education 120.

3 hours, first semester. (3 units).

122. Persuasion.

3 hours, second semester. (3 units).

135. Practical Phonetics.

An intensive course for advanced students in the problems of voice quality, enunciation and vowelization. Required of all major and minor students.

2 hours, first semester. (2 units).

151. The Oral Interpretation of Literature.

Described in catalogue as Speech Education 150.

2 hours, first semester. (2 units).

155-156. Dramatic Reading.

For advanced students. Either semester may be taken separately.

2 hours, throughout the year. (4 units).

162. The Reading of the Bible.

1 hour, second semester of alternate years. Given in 1930-31.
(1 unit).

175. History of Stage Presentation.

An historical survey of the origin and development of the theatre; its social function and significance, and a study of various kinds of theatres.

3 hours, first semester. (3 units).

176. Problems of Stage Presentation.

Practical instruction in stage technique and stage management. Students are assigned to practical work of productions.

Prerequisite: Speech Education 175.

3 hours, second semester. (3 units).

190. Teaching Speech in the Secondary School.

2 hours, second semester of alternate years. Not given in 1930-31.
(2 units).



GROUP II.

FOREIGN LANGUAGES

GROUP MAJOR: A minimum of thirty units of upper division work in such courses as may be advised in each individual case by the group committee of advisers.

DEPARTMENTAL MAJORS: Offered in Latin, French, German, Spanish. A minimum of eighteen units in the upper division, including course 101-102. Majors planning to pursue graduate work in French, Spanish and Latin should have a reading knowledge of German.

DEPARTMENTAL MINORS: Offered in Latin, French, German, Spanish. A minimum of nine units in the upper division. Majors and minors should familiarize themselves with the general regulations of major and minor subjects and with the requirements of the upper division. (See pages 29-30 of the catalogue.)

Prerequisite to the major or minor, and to all upper division courses in French and Spanish: Course 5-6, or 3-4 with recommended grade.

Prerequisite to the major or minor, and to all upper division courses in Latin and German: Course 3-4.

In all courses except 1-2, credit will be given for the work of either semester.

For the Secondary Credential: The requirements of the major, and a minimum of six graduate units.

CLASSICAL LANGUAGES

LATIN

LOWER DIVISION COURSES

3-4. Cicero and Vergil.

Selections from Cicero and from Vergil's Aeneid, books I-VI. Review of Latin grammar.

Prerequisite: Two or three years of high school Latin.
3 hours, throughout the year. (6 units).

10-11. Prose Composition.

Prerequisite: Course 3.
1 hour, throughout the year. (2 units).

UPPER DIVISION COURSES

Course 3-4 or four years of high school Latin is prerequisite to all upper division courses in the department.

101-102. Latin Comedy and Horace.

3 hours, throughout the year. (6 units).

103-104. Pliny and Juvenal.

3 hours, throughout the year. (6 units).

105-106. Tacitus and Martial.

3 hours, throughout the year. (6 units).

Roman History

See History 101-102.

GREEK

LOWER DIVISION COURSES

1-2. First Year Greek.

5 hours, throughout the year. (10 units).

3-4. Second Year Greek.

Prerequisite: Course 1-2.

2 hours, throughout the year. (4 units).

5-6. New Testament Greek.

Prerequisite: Course 1-2.

2 hours, throughout the year. (4 units).

8. The Greek Drama in English.

2 hours, second semester. (2 units). Not given in 1930-31.

UPPER DIVISION COURSES

Greek History

See History 101-102.

MODERN LANGUAGES

FRENCH

LOWER DIVISION COURSES

1-2. Elementary French.

Pronunciation, essentials of grammar, reading of simple French, writing, conversation, dictation. Students presenting one year of high school French will enter French 2. Credit not given for 1 unless followed by 2.

5 hours, both semesters. (10 units).

3-4. Intermediate French.

Prerequisite: Course 1-2 or two years of high school French.
3 hours, throughout the year. (6 units).

5-6. Advanced French.

Prerequisite: Course 3-4 or four years of high school French.
3 hours, throughout the year. (6 units).

UPPER DIVISION COURSES

Prerequisite to upper division: Course 5-6 or 3-4 with recommended grade and for courses above 102 the ability to understand spoken French.

In all upper division courses credit will be given for the work of either semester.

101-102. Advanced Composition and Conversation.

3 hours, throughout the year. (6 units).

105. French Literature of the Seventeenth Century.

3 hours, first semester. (3 units).

106. French Literature of the Eighteenth Century.

3 hours, second semester. (3 units).

109-110. Modern French Drama.

3 hours, throughout the year. Alternate with Course 111-112. Not given in 1930-31. (6 units).

111-112. Modern French Non-Dramatic Literature.

3 hours, throughout the year. Alternates with Course 109-110. Given in 1930-31. (6 units).

115-116. French Literature and Culture.

A course presenting in English the principal figures of French literature against their background of social institutions. Open to properly qualified students wishing to become acquainted with French literature, thought and culture. Outside reading and written reports.

2 hours, throughout the year. (4 units).

125. French Pronunciation.

2 hours, first semester. (2 units).

GERMAN

LOWER DIVISION COURSES

1-2. Elementary German.

Pronunciation, essentials of grammar, reading of simple German, composition, conversation. Credit not given for 1 unless followed by 2.

5 hours, throughout the year. (10 units).

3-4. Intermediate German.

Prerequisite: Course 1-2 or two years of high school German.
3 hours, throughout the year. (6 units).

5-6. Scientific German.

Prerequisite: Course 1-2 or two years of high school German.
2 hours, throughout the year. (4 units).

UPPER DIVISION COURSES

Course 3-4 is prerequisite to all upper division courses in the department.

101-102. Advanced Composition and Conversation.

2 hours, throughout the year. (4 units).

103-104. Survey of German Literature.

Representative examples of German prose, poetry and drama from the 17th Century to the present. Collateral reading and reports.

3 hours, throughout the year. (6 units).

105-106. The Classical Period of German Literature.

3 hours, throughout the year. (6 units).

107-108. Goethe's Faust.

Prerequisite: Course 105-106.
2 hours, throughout the year. (4 units).

ITALIAN

LOWER DIVISION COURSES

1-2. Elementary Italian.

3 hours, throughout the year. (6 units).

3-4. Intermediate Italian.

Reading of modern Italian prose, poetry and drama, grammar review, composition, conversation and collateral reading.

Prerequisite: Course 1-2.
2 hours, throughout the year. (4 units).

SPANISH

LOWER DIVISION COURSES

1-2. Elementary Spanish.

Pronunciation, essentials of grammar, reading of simple Spanish, writing, idioms, conversation. Credit not given for 1 unless followed by 2.

5 hours, throughout the year. (10 units).

3-4. Intermediate Spanish.

Prerequisite: Course 1-2 or two years of high school Spanish.
3 hours, throughout the year. (6 units).

5-6. Advanced Spanish.

Prerequisite. Course 3-4 or four years of high school Spanish.
3 hours, throughout the year. (6 units).

UPPER DIVISION COURSES

Prerequisite to upper division: Course 5-6 or 3-4 with recommended grade, and for all courses above 102 the ability to understand spoken Spanish. In all upper division courses credit will be given for the work of either semester.

101-102. Advanced Composition and Conversation.

3 hours, throughout the year. (6 units).

105-106. Spanish Drama of the Golden Age.

3 hours, throughout the year. Alternate with Course 107-108. Not given in 1930-31. (6 units).

107-108. Spanish Prose of the Golden Age.

3 hours, throughout the year. Alternates with Course 105-106. Given in 1930-31. (6 units).

109-110. Modern Spanish Drama.

3 hours, throughout the year. Alternates with Course 111-112. Given in 1930-31. (6 units).

111-112. Modern Spanish Non-Dramatic Literature.

3 hours, throughout the year. Alternates with Course 109-110. Not given in 1930-31. (6 units).

125. Spanish Pronunciation.

2 hours, second semester. (2 units).



GROUP III.

SOCIAL SCIENCES

GROUP MAJOR: A minimum of thirty units of upper division work in such courses as may be advised in each individual case by the group committee of advisers and including the following courses: Economics 101 (Money and Banking), 3 units; History 105-106 (Modern Europe), 6 units; Political Science 103 (International Relations), 3 units; Sociology 152 (Social Control and Progress), 3 units. In addition to the two social sciences taken in fulfilling lower division requirements for the junior certificate, a third course must be elected at the beginning of the junior year from Economics 1-2 (Principles), Political Science 1-2 (Principles), or Sociology 11-12 (Elements).

DEPARTMENTAL MAJORS: Offered in Economics and Sociology, in History and in Political Science.

DEPARTMENTAL MINORS: Offered in Economics and Sociology, in History and in Political Science.

ECONOMICS AND SOCIOLOGY

ECONOMICS

DEPARTMENTAL MAJOR: Twenty-four units in the upper division, of which three may be in closely related departments, subject to the approval of the department. All upper division courses in Sociology may be credited toward the major in Economics.

DEPARTMENTAL MINOR: A minimum of nine units in the upper division.

Prerequisite to the upper division: Course 1-2, and junior standing.

Courses required of Economics majors are: Economics 1-2 (Principles and Problems), 101 (Money and Banking), and 131 (Advanced Economic Theory). Economics majors are ordinarily expected to take 3 hours in Accounting (Economics 5).

Certain courses offered in the related departments of Political Science and History are recommended.

LOWER DIVISION COURSES

1-2. Principles and Problems of Economics.

Prerequisite: Sophomore standing.

3 hours, throughout the year only. (6 units).

5-6. Principles of Accounting.

Described in catalogue as Economics 15-16.

3 hours, throughout the year. (6 units).

UPPER DIVISION COURSES

101. Money and Banking.

Primarily a junior course.

3 hours, first semester. (3 units).

102. International Trade and Finance.

Prerequisite: Course 101.

3 hours, second semester. (3 units).

103. Corporation Finance.

Primarily a senior course.

Prerequisite: Economics 5.

3 hours, first semester. (3 units).

104. Public Finance.

Described in catalogue as Political Science 129.

3 hours, second semester. (3 units).

105-106. Advanced Accounting.

Described in catalogue as Economics 115-116.

Prerequisite: Economics 5-6.

3 hours, throughout the year. (6 units).

107-108. Principles of Marketing.

A comprehensive survey of the field of marketing. Special attention is given to the conditions determining demand, types of stores, methods of marketing, problems of finance, advertising, storage and management of sales force. Special problems of marketing in agriculture and foreign trade will be considered.

2 hours, throughout the year. (4 units).

110. Economic Geography.

A study of the location of raw materials and their significance to industry and to world markets. The economic contributions and cultural achievements of regions and peoples will also be considered.

3 hours, second semester. (3 units).

111. Statistics.

Described in catalogue as Economics 112. Primarily a senior course.

2 hours, first semester. (2 units).

114. Transportation.

Described in catalogue as Economics 106.

3 hours, second semester. (3 units).

116. Business Law.

Identical with Political Science 106.

3 hours, second semester. (3 units).

117. Economic Development of Europe.

A study of the economic history of Europe, with special reference to the industrial revolution, the factory system and labor conditions.

2 hours, first semester. (2 units).

118. Economic History of the United States.

A study of the development of the United States in agriculture, industry, transportation and foreign commerce.

2 hours, second semester. (2 units).

131-132. Advanced Economic Theory.

A course designed to present a thorough analysis of the principles of economics, surveying the development of economic science from the forerunners of the classical school to the present day, critically discussing the contributions of each school of thought, as well as recent tendencies. Current problems of production, distribution and exchange in which the concepts of value and cost, rent, interest, wages and profits are involved, will be considered. Open to graduate students as a year course.

2 hours, throughout the year. (4 units).

140. International Economic Policies.

A survey of international economic policies, including mercantilism, laissez faire, the open door, commercial treaties, and economic expansion of advanced countries over backward countries. Students are expected to precede this course with Political Science 103.

2 hours, second semester. (2 units).

142. Oriental Economic and Financial Problems.

A study of the industrial development of Japan, India and China, and of the financial and economic relations of these countries with foreign powers.

Prerequisite: History 111.

2 hours, second semester. (2 units).

155. Labor Problems.

3 hours, first semester. (3 units).

GRADUATE COURSES

With permission of the department, upper division courses are open to graduate students with additional work required.

211-212. Economics Seminar.

2 hours, throughout the year. (4 units).

220. Thesis for Master of Arts Degree.

Not to exceed 4 units.

SOCIOLOGY

DEPARTMENTAL MINOR: A minimum of nine units in the upper division.

Prerequisite to the minor and to upper division courses: Sociology 1-2 or Economics 1-2. Introductory courses in Biology and Psychology are recommended. A student taking a departmental major in Economics cannot minor in Sociology.

11-12. Elements of Sociology; Social Problems.

An introductory study of social principles and problems pertaining to human relationships as expressed in social groups and institutions. Open to all students of at least sophomore standing.

3 hours, throughout the year only. (6 units).

UPPER DIVISION COURSES

151. Social Anthropology.

3 hours, first semester. (3 units).

152. Social Control and Progress.

3 hours, second semester. (3 units).

153-154. Comparative Social Institutions.

2 hours, throughout the year. (4 units).

160. Race Problems.

2 hours, second semester of alternate years. Given in 1930-31. (2 units).

HISTORY

DEPARTMENTAL MAJOR: Twenty-four units in the upper division, at least eighteen of which must be in the department. Six units may be elected, subject to the approval of the department, from the departments of Economics and Political Science. Of the twenty-four units, six must be in European History and six in the History of the United States.

DEPARTMENTAL MINOR: A minimum of nine units of upper division history in the department.

Prerequisite to the major or minor: Six units of lower division history and an additional six units in the social sciences.

LOWER DIVISION COURSES

7-8. Social History of England.

Required of all freshmen.

3 hours, throughout the year. (6 units).

UPPER DIVISION COURSES

Twelve units in the social sciences and junior standing are prerequisite to all upper division courses in the department.

101-102. Ancient History.

2 hours, throughout the year. (4 units).

103. Mediaeval Civilization.

3 hours, first semester. (3 units).

104. The Renaissance in Europe.

3 hours, second semester. (3 units).

105. Modern European History.

3 hours, first semester. (3 units).

106. Modern European History.

3 hours, second semester. (3 units).

107-108. History of the United States.

3 hours, throughout the year. (6 units).

109. History of South America.

2 hours, first semester. (2 units).

110. History of Mexico.

Described in catalogue as History 111.

2 hours, second semester. (2 units).

111. The Pacific Ocean in History.

Described in catalogue as History 116.

Students are expected to follow this course with Economics 142 (Oriental Economic and Financial Problems).

2 hours, first semester. (2 units).

112. History of Mexico.

Described in catalogue as History 113.

2 hours, second semester. (2 units).

115-116. History of the Americas.

Described in catalogue as History 5-6.

3 hours, throughout the year. (6 units).

117. Economic Development of Europe.

Identical with Economics 117.

2 hours, first semester. (2 units).

118. Economic History of the United States.

Identical with Economics 118.

2 hours, second semester. (2 units).

123-124. Constitutional Development of England.

Identical with Political Science 123-124.

2 hours, throughout the year. (4 units).

125-126. Constitutional Law.

A study of the Constitution of the United States as expanded by judicial interpretation. Identical with Political Science 125-126.

2 hours, throughout the year. (4 units).

GRADUATE COURSES

Courses numbered 202 or above are open only to graduate students and to a limited number of qualified seniors.

205-206. History Seminar.

2 hours, throughout the year. (4 units).

220. Thesis for Master of Arts Degree.

Not to exceed 4 units.

POLITICAL SCIENCE

DEPARTMENTAL MAJOR: A minimum of twenty-one units in the upper division, including courses 207 and 208. Certain related courses in Economics and History may be credited toward the major.

DEPARTMENTAL MINOR: Nine units in the upper division.

Prerequisite to the major or minor: Political Science 1-2, or an equivalent approved by the department, and six additional units in the Social Sciences. All students majoring in the department, especially those who expect to pursue graduate work, should equip themselves with a reading knowledge of Latin, French or German.

LOWER DIVISION COURSES

1-2. Principles of Government.

3 hours, throughout the year. (6 units).

UPPER DIVISION COURSES

Twelve units in the social sciences, together with junior standing, are prerequisite to all upper division courses in this department.

101. American Political Institutions.

3 hours, either semester. (3 units).

102. State and Local Government in the United States.

3 hours, second semester. (3 units).

103. International Relations.

Students are expected to follow this course with Economics 140 (International Economic Policies).

3 hours, first semester. (3 units).

104. American Diplomacy.

3 hours, second semester. (3 units).

105. Elementary Jurisprudence.

Described in catalogue as Political Science 11.

3 hours, first semester. (3 units).

106. Business Law.

Described in catalogue as Political Science 12. Identical with Economics 116.

3 hours, second semester. (3 units).

111. Governments and Politics in Europe.

2 hours, first semester of alternate years. Given in 1930-31. (2 units).

112. The New European Constitutions.

2 hours, second semester of alternate years. Given in 1930-31. (2 units).

115-116. International Law.

2 hours, throughout the year only. Given in alternate years. Given in 1930-1931. (4 units).

123-124. Constitutional Development of England.

Identical with History 123-124.

2 hours, throughout the year. (4 units).

125-126. Constitutional Law.

Identical with History 125-126.

2 hours, throughout the year. (4 units).

127-128. Municipal Administration.

Described in catalogue as Political Science 123 and 124.

2 hours, throughout the year. Given in alternate years. Given in 1930-31. (4 units).

130. Public Finance.

Described in catalogue as Political Science 129. Identical with Economics 104.

3 hours, second semester. (3 units).

GRADUATE COURSES

With the approval of the instructor in charge, the following courses are open to undergraduates with advanced standing. With sufficient additional work, courses numbered from 115 to 129 may be taken for graduate credit.

207-208. History of Political Thought.

2 hours, throughout the year. (4 units).

211-212. Seminar in American Government.

Not given in 1930-31.

213-214. Seminar in World Politics.

1 or 2 hours, throughout the year. Not given in 1930-31. (2 or 4 units).

220. Thesis for the Master of Arts Degree.

Not to exceed 4 units.



GROUP IV.

NATURAL SCIENCES AND MATHEMATICS

GROUP MAJOR: A minimum of thirty units of upper division work in such courses in at least three departments within the group as may be advised in each individual case.

DEPARTMENTAL MAJORS: Offered in Biology, in Chemistry, in Geology, in Physics and in Mathematics and Technical Drawing.

DEPARTMENTAL MINORS: Offered in Biology, in Chemistry, in Geology, in Physics and in Mathematics and Technical Drawing.

BIOLOGY

DEPARTMENTAL MAJOR IN BIOLOGY: Twenty-one units in the upper division. The major student in Biology may elect:

- (1) A major in the general field of Biology, which must include courses 101, 102, 103, 104.
- (2) A major with special emphasis on Botany: courses 103, 104, and other upper division courses to the total of 21 units selected from courses 105, 109, 111, 118, 119, 133-134.
- (3) A major with special emphasis on Zoology: courses 101, 102, and other upper division courses to the total of 21 units selected from courses 105, 106, 107, 108, 113, 115, 117, 119, 133-134.

DEPARTMENTAL MINOR IN BIOLOGY: A minimum of nine units in the upper division courses.

Prerequisite to the major or minor: Biology 1-2 and entrance Chemistry or equivalents.

LOWER DIVISION COURSES

1-2. General Biology.

3 lectures and 2 laboratory periods, throughout the year only.
(10 units).

3-4. Plants and Plant Communities of Southern California.

2 laboratory periods, fall and spring semesters of successive years.
(4 units).

5. Human Physiology.

Prerequisite: Biology 1-2.

2 lectures and 2 laboratory periods, first semester of alternate years.
Given in 1930-31. (4 units).

20. Dietetics.

Prerequisite: One year of Chemistry.

2 laboratory periods of 3 hours each, including 2 hours of lecture,
second semester. (3 units).

UPPER DIVISION COURSES

Biology 1-2, or equivalent, is prerequisite to all upper division courses in Biology.

101. Comparative Anatomy of Vertebrates.

2 lectures and 3 laboratory periods, first semester. (5 units).

102. Invertebrates.

2 lectures and 2 laboratory periods, second semester of alternate years. Not given in 1930-31. (4 units).

103. Algae and Archegoniates.

2 lectures and 2 laboratory periods, first semester of alternate years.
Not given in 1930-31. (4 units).

104. Spermatophytes.

2 lectures and 2 laboratory periods, second semester of alternate years. Not given in 1930-31. (4 units).

105. Cytology.

2 lectures and 2 laboratory periods, first semester of alternate years.
Not given in 1930-31. (4 units).

106. Vertebrate Embryology.

2 lectures and 2 laboratory periods, second semester. (4 units).

107. Parasitology.

2 lectures, first semester of alternate years. Not given in 1930-31.
(2 units).

108. Histology.

2 lectures and 2 laboratory periods, first semester of alternate years.
Given in 1930-31. (4 units).

109. Fungi and Plant Pathology.

2 lectures and 2 laboratory periods, first semester of alternate years.
Given in 1930-31. (4 units).

111-112. Economic Botany.

A survey of the plants yielding products useful to man.

2 lectures and 1 laboratory period, throughout the year. (6 units).

113. Principles of Physiology.

Prerequisite: Entrance Chemistry.

3 lectures and 2 laboratory periods, first semester of alternate years.
Not given in 1930-31. (5 units).

114. Nutrition.

Prerequisites: Biology 5 and 113, and Chemistry 3-4 or equivalent. Chemistry 7-8 recommended.

2 lectures, second semester of alternate years. Not given in 1930-31. (2 units).

115. Economic Vertebrates of North America.

2 lectures, first semester of alternate years. Given in 1930-31. (2 units).

116. Genetics.

The course takes up the newer phases of genetics and introduces the student to the research literature of human, animal and plant genetics, with their application to society.

2 lectures, second semester. (2 units).

117-118. Paleontology and Organic Evolution.

Prerequisite: Geology 11-12.

2 lectures and 1 laboratory period, throughout the year. Given in alternate years. Given in 1930-31. (6 units).

119. History of the Natural Sciences.

2 lectures, first semester of alternate years. Given in 1930-31. (2 units).

126. Bacteriology.

Described in catalogue as Biology 6.

Prerequisite: Chemistry 1-2 and Biology 1-2, or equivalent.

2 lectures and 2 laboratory periods, second semester of alternate years. Given in 1930-31. (4 units).

127. Ornamental Plants and Plant Propagation.

Described in catalogue as Biology 8.

Prerequisite: Biology 1-2 or 3-4.

2 laboratory periods, first semester of alternate years. Given in 1930-31. (2 units).

131-132. Current Scientific Literature of Biology.

Required of seniors, throughout the year.

(2 units).

133-134. Research Course.

Described in catalogue as course 123-124.

Not more than 3 units toward the 21 required for the major may be taken in connection with this course. Hours and credit to be arranged; each semester.

220. Thesis for Master of Arts Degree.

Not to exceed 4 units.

CHEMISTRY

DEPARTMENTAL MAJOR: Eighteen units in the upper division.

DEPARTMENTAL MINOR: Nine or more units in the upper division.

Prerequisite to the major or minor. Course 3-4 or equivalent.

LOWER DIVISION COURSES

1-2. General Chemistry.

3 lectures and 2 laboratory periods, throughout the year. (10 units).

3-4. General Chemistry.

3 lectures and 2 laboratory periods, throughout the year. (10 units).

UPPER DIVISION COURSES

101-102. Quantitative Analysis.

Described in catalogue as Chemistry 5-6.

Prerequisite: Qualitative Analysis.

3 laboratory periods, including 1 hour drill, throughout the year.
(6 units).

103-104. Organic Chemistry.

Described in catalogue as Chemistry 7-8.

Prerequisite: Chemistry 1-2 or 3-4.

2 lectures and 2 laboratory periods, throughout the year, for those majoring or minoring in Chemistry. (8 units).

1 laboratory period, throughout the year, if preferred by students majoring or minoring in other departments. (6 units).

105-106. Physical Chemistry.

Described in catalogue as Chemistry 101-102.

Prerequisite: Course 103-104.

2 lectures and 1 laboratory period, throughout the year. Alternates with Course 107-108. Not given in 1930-31. (6 units).

107-108. Industrial Chemistry.

Described in catalogue as Chemistry 103-104.

Prerequisite: Course 101-102.

2 hours, throughout the year. Alternates with Course 105-106.
Given in 1930-31. (4 units).

111-L. Supplemental Laboratory.

Consult instructor for prerequisites, units and other details.

212. Seminar.

1 hour, second semester. (1 unit).

220. Thesis for Master of Arts Degree.

Not to exceed 4 units.

GEOLOGY

DEPARTMENTAL MAJOR: Eighteen units in the upper division.

Biology 117-118 (Paleontology and Organic Evolution, 3 units each semester) may be counted toward the major in Geology.

DEPARTMENTAL MINOR: Nine units in the upper division.

Prerequisite to the major: Geology 11-12, 13-14, Chemistry 1-2 or entrance Chemistry, Mathematics 5, and Freehand and Geometrical Drawing. A reading knowledge of French and German is recommended.

Prerequisite to the minor: Geology 11-12.

LOWER DIVISION COURSES

11-12. General Geology.

3 lectures and 1 laboratory period (or field trip), throughout the year only. (8 units).

13-14. Mineralogy.

Prerequisite: Entrance Chemistry or Chemistry 1-2.

2 lectures and 2 laboratory periods, throughout the year only. (8 units).

16. Physiography.

Prerequisite: Geology 11-12.

2 lectures and 2 laboratory periods, second semester of alternate years. Given in 1930-31. (3 units).

UPPER DIVISION COURSES

112. Petrology.

Prerequisites: Geology 11-12, 13-14.

2 lectures and 2 laboratory periods, second semester of alternate years. Given in 1930-31. (4 units).

113-114. Geology of the Americas.

Prerequisite: Geology 11-12.

2 lectures, throughout the year. Given in alternate years. Given in 1930-31. (4 units).

115-116. Historical Geology.

Prerequisite: Geology 11-12. Biology 117-118 recommended.

3 lectures, throughout the year. Given in alternate years. Not given in 1930-31. (6 units).

117-118. Economic Geology.

Prerequisites: Geology 11-12, 13-14.

2 lectures, throughout the year. Given in alternate years. Not given in 1930-31. (4 units).

119. Field Geology.

Prerequisites: Geology 11-12 and Mathematics 5.

1 lecture and 2 laboratory or field periods, second semester of alternate years. Not given in 1930-31. (3 units).

120. Geology and Mineral Resources of California.

Prerequisites: Geology 11-12, 13-14.
2 lectures, second semester. (2 units).

121. Sedimentation.

A study of the materials and processes distinctive of the sedimentary rocks.

2 lectures and 1 laboratory period, first semester of alternate years.
Given in 1930-31. (3 units).

PHYSICS

DEPARTMENTAL MAJOR: Twenty units in the upper division.

DEPARTMENTAL MINOR: Ten units in the upper division.

Prerequisites to the major or minor: Physics 1-2 or 3-4, Differential and Integral Calculus and a reading knowledge of French or German.

LOWER DIVISION COURSES

1-2. General Physics.

A general introductory course for those who wish to obtain a general survey of Physics as part of a liberal education, but do not intend to use the course as preparation for technical work. Text: College Physics, Little. Laboratory Manual: Laboratory Projects in Physics, Good.

3 demonstration lectures and 2 laboratory periods, throughout the year. (10 units).

3-4. Experimental Physics.

A general introductory course covering the subjects of mechanics, heat, electricity, magnetism, sound and light. Text: Physics for College Students, Knowlton. Laboratory Manual: Laboratory Manual in Physics, Knowlton.

Prerequisite: High school Physics.

3 demonstration lectures and 2 laboratory periods, throughout the year. (10 units).

5-6. Mathematical Problems in Physics.

A course in the solution of problems in mechanics, heat, electricity, magnetism, sound and light. Text: Problems in Physics, Henderson.

Prerequisite: Physics 1-2 or 3-4.

2 hours, throughout the year. (4 units).

LOWER DIVISION COURSES

Physics 1-2 and 5-6 or Physics 3-4 are prerequisite to all upper division courses, also Mathematics 121-122 (Differential and Integral Calculus) completed or in course.

101-102. Mathematical Physics.

A survey of the field of theoretical physics and an introduction to the application of mathematics to Physics and Chemistry. Text: Introduction to Theoretical Physics, Page.

3 hours and 1 computation period throughout the year. Not given in 1930-31. (8 units).

103-104. Electricity and Magnetism.

3 hours and 1 computation period throughout the year. Not given in 1930-31. (8 units).

105-106. Advanced Physics Laboratory.

Determination elementary charge by oil drop experiment, determination properties of cathode rays, X-rays, gamma rays. Text: Electron Physics, Hoag.

Open only to majors and minors in Physics, by permission.

1 hour, throughout the year. (2 units).

111-112. Theoretical Mechanics.

3 hours and 1 computation period, throughout the year. (8 units).

113-114. Physical Optics.

Text: College Course in Light, Robertson. Recommended to pre-medical students.

3 hours and 1 computation period, throughout the year. (8 units).

MATHEMATICS AND TECHNICAL DRAWING

MATHEMATICS

DEPARTMENTAL MAJOR: Eighteen units in the upper division.

DEPARTMENTAL MINOR: Nine units in the upper division.

Prerequisite to the major or minor: Courses 1, 2, 3 and 4.

Technical Drawing 15-16 and 117-118 are credited in this department.

LOWER DIVISION COURSES

1. Plane and Spherical Trigonometry.

Prerequisite: Elementary algebra and plane geometry.

3 hours, first semester. (3 units).

2. Solid Geometry.

Prerequisite: Elementary algebra and plane geometry.
3 hours, second semester. (3 units).

3. College Algebra.

Prerequisite: Elementary algebra and plane geometry.
3 hours, first semester. (3 units).

4. Plane Analytics.

Prerequisite: Trigonometry.
3 hours, second semester. (3 units).

5. Surveying.

Prerequisite: Course 1.
2 lectures and 1 laboratory period, first semester. (3 units).

6. Advanced Surveying.

Prerequisite: Course 5.
2 lectures and 1 laboratory period, second semester. (3 units).

7. Theory of Equations.

Prerequisite: Courses 1 and 3.
2 hours, first semester. (2 units).

11. General Astronomy.

Prerequisite: Trigonometry.
3 hours, first semester. (3 units).

UPPER DIVISION COURSES

These will be counted as upper division courses only when preceded by 1, 2, 3 and 4, but may be taken as lower division courses with the prerequisites named below.

121. Differential Calculus.

Prerequisite: Courses 3 and 4.
3 hours, first semester. (3 units).

122. Integral Calculus.

Prerequisite: Course 121.
3 hours, second semester. (3 units).

125. Advanced Calculus.

Prerequisite: Courses 121 and 122.
3 hours, first semester. (3 units).

126. Differential Equations.

Prerequisite: Courses 121, 122 and 125.
3 hours, second semester. (3 units).

128. Higher Analytics.

Prerequisite: Course 4.
2 hours, second semester. (2 units).

130. Practical Astronomy.

Prerequisite: Courses 2, 4 and 11.
3 hours, second semester. (3 units).

131. Precision of Measurements.

Prerequisite: Courses 121 and 122.
2 hours, first semester. (2 units).

132. Least Squares and Probabilities; Graphical Analysis

Prerequisite: Courses 121 and 122.
2 hours, second semester. (2 units).

TECHNICAL DRAWING**LOWER DIVISION COURSES****1-2. Technical Drawing.**

3 hours, throughout the year. (2 units).

3-4. Orthographic Projection.

Prerequisite: Course 1-2.
6 hours, throughout the year. (4 units).

7-8. Machine Drawing.

Prerequisite: Course 1-2 or 3-4.
6 hours, throughout the year. (4 units).

11-12. Topography and Map-Making.

Prerequisite: Course 1-2.
3 hours, throughout the year. (2 units).

15-16. Descriptive Geometry.

Prerequisite: Courses 1-2 and 3-4 and Mathematics 2.
6 hours, throughout the year. (4 units).

UPPER DIVISION COURSES**117-118. Graphic Statics.**

Prerequisite: Course 1-2 and Mathematics 1.
3 hours, throughout the year. (2 units).

121-122. Architectural Rendering of Shades and Shadows.

Prerequisite: Courses 1-2 and 15-16.
3 hours, throughout the year. (2 units).

123-124. Architectural Perspective.

Prerequisite: Courses 1-2 and 3-4; Course 121-122 completed or in progress.
3 hours, throughout the year. (2 units).

129-130. Architectural Drawing.

Prerequisite: Courses 1-2, 15-16, 121-122, 123-124.
6 hours, throughout the year. (4 units).

GROUP V.

EDUCATION AND PSYCHOLOGY; PHYSICAL EDUCATION

GROUP MAJOR: A minimum of thirty units of upper division work in such courses as may be advised in each individual case by the group committee of advisers.

DEPARTMENTAL MAJORS: Offered in Education and Psychology, in Physical Education for Men and in Physical Education for Women.

NOTE—All students completing a departmental major in Group V must also complete for graduation a major from Groups I-IV or VI-VII.

DEPARTMENTAL MINORS: Offered in Education, in Psychology, in Physical Education for Men and in Physical Education for Women.

Students wishing to prepare for a teachers' credential must consult the School of Education on beginning upper division work. All candidates for an Elementary Teacher's Credential must complete a major of 18 units and a minor of 12 units in "subjects which offer suitable preparation for public school teaching." Speech Education 100, or its equivalent, is required of all candidates for teachers' credentials.

EDUCATION AND PSYCHOLOGY

EDUCATION

DEPARTMENTAL MAJOR: Twenty-four units in the upper division, including Speech Education 100 or its equivalent.

DEPARTMENTAL MINOR: Twelve units in the upper division.

Prerequisite to the major or minor: Consult the department.

Prerequisite to all Education courses: Psychology 2.

NOTE—Students entering the upper division in September, 1930, and thereafter, who are taking a departmental major in Education are also required to complete for graduation a major from groups I-IV or VI-VII.

UPPER DIVISION COURSES

101. Principles of Education.

Prerequisite: Psychology 2.

2 hours, either semester. (2 units).

106. History of Modern Education in the United States.

Prerequisite: Education 101, completed or in progress.

3 hours, second semester. Not given in 1930-31. (3 units).

111. Educational Psychology.

Prerequisite: Psychology 2, and Education 101 completed or in progress.

3 hours, either semester. (3 units).

112. Elementary Education.

Enrollment subject to approval of instructor.

2 hours, either semester. (2 units).

119. Secondary Education.

3 hours, either semester. (3 units).

127. Methods of Teaching in High School.

3 hours, first semester. (3 units).

134. Psychology and Personal Development.

Enrollment subject to approval of instructor.

2 hours, first semester. Not given in 1930-31. (2 units).

136. Practice Teaching in Elementary School.

Actual experience in teaching under supervision in the public schools of the city. Open to seniors who are candidates for Elementary or Junior High School Credentials. Weekly conferences.

4 hours throughout the year. (4 units toward graduation; 8 units toward credentials).

137-138. Methods of Teaching in Elementary School.

In addition to the presentation of general methods of organization and instruction, the course will cover the technique of teaching the fundamental elementary school subjects.

2 hours, throughout the year. (4 units).

142. Growth and Development of the Child.

2 hours, first semester. (2 units).

180. Mental and Educational Measurements.

2 hours, second semester. (2 units).

GRADUATE COURSES**206. Practice Teaching in High School.**

5 hours of teaching, either semester. (4 units).

220. Thesis for Master of Arts Degree.

Not to exceed 4 units.

236. Educational Seminar.

2 or 3 units, either semester.

PSYCHOLOGY

DEPARTMENTAL MINOR: Nine units in the upper division, including Psychology 134.

Prerequisite to the minor: Psychology 2 and 22.

LOWER DIVISION COURSES**2. Introductory Psychology.**

3 hours, either semester. (3 units).

22. Advanced General Psychology.

Prerequisite: Psychology 2.

3 hours, second semester. (3 units).

UPPER DIVISION COURSES**122. Applied Psychology.**

Prerequisite: Psychology 2.

3 hours, first semester of alternate years. Given in 1930-31.
(3 units).

124. Social Psychology.

Prerequisite: Psychology 2.

3 hours, first semester of alternate years. Not given in 1930-31.
(3 units).

130. Abnormal Psychology.

Prerequisites: Psychology 2 and permission of instructor.

2 hours, second semester. (2 units).

134. Experimental Psychology.

Prerequisites: Psychology 2 and permission of instructor.

3 hours, either semester. (3 units).

220. Thesis for Master of Arts Degree.

Not to exceed 4 units.

236. Psychology Seminar.

2 or 3 hours, either semester. (2 or 3 units).

PHYSICAL EDUCATION FOR MEN

DEPARTMENTAL MAJOR: Twenty-four units in the upper division. The following courses (105, 106, 108, 109, 110, 115, 116, 117, 118, 127, 129, 130, 131), taken in conjunction with the required physical education courses and the courses prerequisite to the major, as listed below, together with courses in Education, also listed below, constitute a teachers' course in Physical Education and Athletic Coaching. Students who

complete this course are eligible to apply for special state credentials for teaching this subject in the high schools.

Physical Education majors entering the upper division in September, 1930, and thereafter, will be required to take a second major from Groups I-IV or VI-VII. For details, consult the department.

Physical Education majors are advised to elect an activities course each semester in the college. A maximum of four units may be counted toward a Bachelor of Arts degree.

DEPARTMENTAL MINOR: Twelve units in the upper division.

Prerequisites for a major: Biology 1-2 and 5, Speech Education 1, Psychology 2, Sociology 11-12 or Political Science 1-2, Physical Education 50, 52, 56 and 57.

Recommended courses in Education: 106, 111, 119, 142, required in the teachers' course.

A year course in Physical Education of three hours a week (1 unit per semester) is required of all freshmen and sophomores. Two hours a week are given to an activity program and the third hour each week is a lecture period dealing with different phases of the student's health and well-being. Beginning in September, 1930, and thereafter, Juniors and Seniors are required to elect an activity course meeting twice a week each semester. No credit is given toward the degree for this course.

LOWER DIVISION COURSES

1-2. General Physical Education.

3 hours, throughout the year. (2 units).

3-4. Apparatus and Tumbling; Gym Team.

3 hours, throughout the year. (2 units).

5-6. Individual Gymnastics.

3 hours, throughout the year. (2 units).

11-12. Self-Defense.

The elementary holds, breaks and counters in wrestling. The elementary blows, blocks and counters in boxing. May be substituted in lieu of the defense test.

3 hours, throughout the year. (2 units).

The following courses are elective for all upper division men who have satisfied the lower division Physical Education requirements and for all lower division students who have passed the required Physical Education tests.

21-22. Basketball.

3 hours, throughout the year. (2 units).

23. Football.

3 hours, first semester. (1 unit).

25-26. Track.

3 hours, throughout the year. (2 units).

27-28. Baseball.

3 hours, throughout the year. (2 units).

31-32. Tennis.

3 hours, throughout the year. (2 units).

33-34. Swimming; Elementary.

Described in catalogue as Physical Education 29.

3 hours, throughout the year. (2 units).

35-36. Swimming; Advanced.

Described in catalogue as Physical Education 30.

3 hours, throughout the year. (2 units).

50. Human Anatomy.

Prerequisite: Biology 1-2.

2 hours, first semester. (2 units).

52. First Aid and Care of Athletic Injuries.

2 hours, second semester. (2 units).

56. Games of Low Organization.

2 hours, first semester. (2 units).

57. Community Recreation.

2 hours, second semester. (2 units).

UPPER DIVISION COURSES**105. Methods in Formal Activities.**

Prerequisite: Physical Education 1-2.

3 recitations and 2 laboratory periods, first semester. (5 units).

106. Administration and Organization of Physical Education.

Prerequisite: Senior standing.

3 hours, second semester. (3 units).

108. Physiology of Exercise.

Prerequisite: Biology 1-2 and 5, Physical Education 50 and 109.

2 hours, first semester. (2 units).

109. Applied Anatomy and Kinesiology.

Prerequisite: Biology 1-2 and 5, Physical Education 50.

2 hours, second semester. (2 units).

110. Health Education.

Prerequisite: Junior standing.

2 hours, first semester. (2 units).

115-116. Activities in Physical Education.

2 hours, throughout the year. (4 units).

117-118. Departmental Practice.

Prerequisite: Junior standing.

3 hours, throughout the year. (4 units as an activities course; no credit toward degree).

127. Practice Teaching.

Prerequisite: Senior standing.

6 hours, either semester. (3 units).

129. Corrective Physical Education.

Prerequisite: Biology 1-2 and 5, Physical Education 50, 105 and 109.

2 hours, second semester. (2 units).

130. Principles of Physical Education.

Prerequisite: Junior standing.

2 hours, first semester. (2 units).

131. Physical Education Tests and Measurements.

A study of the past and present methods and systems of measuring motor, physical and functional ability. Discussion and criticism of the values of various types of tests now in vogue. Elementary statistics.

Prerequisite: Senior standing.

3 hours, second semester. (3 units).

141-142. Required Activity: Juniors.

Required of all Junior men.

2 hours, throughout the year. (No credit).

143-144. Required Activity: Seniors.

Required of all Senior men.

2 hours, throughout the year. (No credit).

PHYSICAL EDUCATION FOR WOMEN

DEPARTMENTAL MAJOR: Twenty-one units in the upper division.

DEPARTMENTAL MINOR: Nine or more units in the upper division.

Prerequisite to the major or minor: Course 7, 8, 10, 50, 56; Biology 1-2 and 5. All applicants for the State Special Credential in Physical Education should consult the department. Such students are required to complete a Group V major with a minimum of 21 units in Physical Education and 9 units in Education. Physical

Education 127 and Education 119 and 142 must be included. A second major from Groups I-IV or VI-VII is also required of Physical Education majors entering the upper division in September, 1930, and thereafter.

REQUIRED LOWER DIVISION COURSES

A year course of three hours a week is required of all freshmen and sophomores. Two hours a week are given to an activity program; the third hour each week is a lecture period dealing with different phases of the student's health and well-being.

1-2. Required Physical Education for Freshmen.

3 hours, throughout the year. (2 units).

3-4. Required Physical Education for Sophomores.

3 hours, throughout the year. (2 units).

ELECTIVE LOWER DIVISION COURSES

5. Sports.

2 hours, throughout the year. (No credit).

7. Natural Dancing.

2 hours, first semester. (1 unit).

8. Clog Dancing.

2 hours, second semester. (1 unit).

10. Rhythmical Activities.

1 lecture, 2 hours practical work, first semester. (2 units).

20. Public Health and Sanitation.

2 hours, first semester. (2 units).

21. Domestic Hygiene and Practical Nursing.

2 hours, first semester. (2 units).

50. Human Anatomy.

Prerequisite: Biology 1-2.

2 hours, first semester. (2 units).

56. Games of Low Organization.

1 lecture, 2 hours practical work, second semester. (2 units).

UPPER DIVISION COURSES

102. Principles of Community Recreation.

2 hours, second semester of alternate years. Given in 1930-31. (2 units).

103-104. Theory and Practice of Coaching.

2 lectures, 2 coaching periods, throughout the year. (4 units).

105. Theory of Formal Gymnastics.

1 lecture, 2 hours practical work, second semester of alternate years.
Not given in 1930-31. (2 units).

106. Administration and Organization of Physical Education.

2 hours, first semester of alternate years. Not given in 1930-31.
(2 units).

107. Theory and Practice of Physical Education Activities.

1 lecture, 2 hours practical work, second semester of alternate years.
Given in 1930-31. (2 units).

108. Physiology of Exercise.

Prerequisites: Biology 1-2 and 5; Physical Education 50 and 109.
2 hours, first semester. (2 units).

109. Applied Anatomy and Kinesiology.

Prerequisite: Physical Education 50, completed or in progress.
2 hours, second semester. (2 units).

110. Methods in Health Education and Health Inspection.

2 hours, second semester of alternate years. Given in 1930-31.
(2 units).

111. Physical Education Tests and Measurements.

2 hours, second semester of alternate years. Given in 1930-31.
(2 units).

127. Practice Teaching.

6 hours, either semester. (3 units).

129. Methods in Corrective Gymnastics.

Prerequisite: Physical Education 50 and 109, completed or in progress.

2 hours, first semester of alternate years. Given in 1930-31.
(2 units).

130. Principles and History of Physical Education.

2 hours, first semester of alternate years. Given in 1930-31.
(2 units).

141-142. Required Physical Education for Juniors.

2 hours, throughout the year. (No credit).

143-144. Required Physical Education for Seniors.

2 hours, throughout the year. (No credit).



GROUP VI.

PHILOSOPHY AND RELIGION

GROUP MAJOR: A minimum of thirty units of upper division work in such courses as may be advised in each individual case by the group committee of advisers.

DEPARTMENTAL MAJORS:

Offered in Philosophy and in Religion.

DEPARTMENTAL MINORS:

Offered in Philosophy and in Religion.

PHILOSOPHY

DEPARTMENTAL MAJOR: Eighteen units in upper division.

DEPARTMENTAL MINOR: Nine or more units in upper division.

Prerequisite to the major or minor: Courses 3 and 11. Those intending to major in Philosophy should take Philosophy 11 in freshman year. All courses except Logic may be counted toward meeting the requirement in Religion.

LOWER DIVISION COURSES

3. Logic.

3 hours, second semester. (3 units).

11. Introduction to Philosophy.

3 hours, either semester. (3 units).

UPPER DIVISION COURSES

101. History of Ancient Philosophy.

Prerequisite: Philosophy 3 and 11.

3 hours, first semester. (3 units).

102. History of Modern Philosophy.

Prerequisite: Philosophy 101.

3 hours, second semester. (3 units).

103. Ethics.

Prerequisite: Philosophy 3 and 11.

3 hours, first semester. (3 units).

104. Philosophy of Religion.

Prerequisite: Philosophy 3 and 11.

3 hours, second semester. (3 units).

106. Comparative Religion.

2 hours, second semester. (2 units).

107. Philosophy of the Nineteenth Century.

Prerequisite: Philosophy 3, 11, 101 and 102.

2 hours, first semester. Not given in 1930-31. (2 units).

113. Philosophy of Kant.

Prerequisite: Philosophy 101 and 102.

2 hours, first semester. (2 units).

114. Modern Contemporary Philosophy.

Prerequisite: Philosophy 101 and 102.

2 hours, second semester. (2 units).

119. Metaphysics.

Prerequisite: Philosophy 101 and 102.

2 hours, second semester. (2 units).

121. Philosophy of Evolution.

Leading up to and including the concept of emergent evolution.

Prerequisite: Philosophy 3 and 11.

2 hours, first semester. (2 units).

RELIGION

The College rules require four units in Religion in the lower division and four units in the upper division. All courses in Philosophy except Logic count toward meeting this requirement.

DEPARTMENTAL MAJOR: Eighteen units in the upper division.

DEPARTMENTAL MINOR: Ten units in the upper division.

Prerequisite to the major or minor: Eight units in the lower division. Courses in Philosophy and other departments may, with the approval of this department, be credited toward a major or a minor in Religion.

LOWER DIVISION COURSES

1. Life of Jesus.

2 hours, first semester. (2 units).

2. Life and Letters of Paul.

2 hours, second semester. (2 units).

3. Old Testament History.

2 hours, first semester. (2 units).

7. Introduction to Religion.

A general course aiming to acquaint the student with the chief



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phases of religion as a subject of thought and study. Advised for all entering students.

2 hours, first semester. (2 units).

21. Introduction to the Old Testament.

2 hours, first semester. (2 units).

22. Introduction to the New Testament.

2 hours, second semester. (2 units).

23. The Bible As a Book.

2 hours, second semester. (2 units).

25. The Literature of the Bible.

A study of the chief literary types found in the Bible, with special reference to the Old Testament.

2 hours, first semester. (2 units).

UPPER DIVISION COURSES

107. Survey of Christian Missions.

2 hours, second semester. (2 units).

110. Christianity and Social Problems.

2 hours, second semester. (2 units).

111. Religious Pedagogy.

2 hours, first semester. (2 units).

115. History of Christianity.

2 hours, first semester. (2 units).

118. The Prophets.

2 hours, second semester. (2 units).

119. The Origins of Religion.

2 hours, first semester. (2 units).

122. The Psychology of Religion.

Prerequisite: Psychology 2.

2 hours, first semester. (2 units).

129. Christian Ideas and Modern Thought.

2 hours, second semester. (2 units).

130. Introduction to Religious Education.

2 hours, first semester. (2 units).

GRADUATE COURSES

202-203. Seminar in Religion.

2 hours, either or both semesters. (2 or 4 units).